

Connecticut to the northern half of North Carolina the snowfall was unusually large, ranging from two to three feet. The following special cases are noted: 28th, Green Springs, Ala., seven inches; Okalooska, La., one inch. 29th, Forsyth, Ga., four inches, heaviest fall since 1856; Atlanta, "one of the heaviest ever known;" Mobile; Montgomery, "five inches, very remarkable, heaviest ever known;" Columbus, Ga., $4\frac{1}{2}$ inches, "heaviest on record;" Augusta, Ga., "heaviest fall since 1857." 30th, New Orleans; El Paso, Tex.; Rockport, Tex.; three inches. 31st, Brownsville, Tex.; Fort Ringgold, Tex., two inches; Rio Grande City, 1.7 inches, first snow since December. 1866.

Greatest Monthly Snow-falls.—*California*: Summit, 62 inches; Truckee, 80; Emigrant Gap, 114; Cisco, 120. *Nevada*: Reno, Battle Mountain and Toano, 12; Winnemucca, 18. *Utah*: Blue Creek, Terrace and Corinne, 18. *Connecticut*: Mystic, 31. *Delaware*: Dover, 35. *Maryland*: Sandy Springs, most for 20 years; Deer Park, 35; Cumberland, 22. *Massachusetts*: Rowe and Somerset, 24; Fall River, 21. *Michigan*: Niles, 44. *New Hampshire*: Grafton, 28. *New Jersey*: Atco, 33; Freehold, 51; Vineland, 39. *North Carolina*: Highlands, 17. *Ohio*: College Hill, 24; North Lewisburg, 18. *Pennsylvania*: Philadelphia, 22; Fallsington, 21. *Virginia*: Dover Mines, 18; Mt. Solon, 28; Dover, 24.

Snow on Ground at End of Month—was reported from every station in New England, Middle States, Lake region, Tennessee, the Ohio, Missouri and Upper Mississippi valleys, in quantities generally ranging from 1 to 8 inches. The following special cases are noted: Brackettville and Rio Grande City, Tex., trace; El Paso and Brownsville Tex., 1 inch. Vicksburg, Miss. and Augusta, Ga., $\frac{1}{2}$ inch. Atlanta, Montgomery and Ft. Davis, Tex., 2. Charlotte, N. C., 8. Washington, 14. Helena, M. T., 23. Oswego, 24.

RELATIVE HUMIDITY.

The relative humidity, not corrected for elevation, in the Atlantic and Gulf States, Tennessee, the Mississippi, Ohio and Lower Missouri valleys has generally ranged from 70 to 75 per cent.; in the Lake region from 76 to 83 per cent.; in northern California from 81 to 88 per cent.; in the Plateau district from 56 to 78 and Rocky Mountain districts from 49 to 63. The following percentages are noted as of interest: Cheyenne, 49; Pikes Peak, 61; Mt. Washington, 79; Indianola, 81; Cleveland, Escanaba and Grand Haven, 83; Duluth and Sacramento, 88; Bismarck, 89; St. Vincent, 91 and Chincoteague, 93.

WINDS.

The prevailing winds during December, 1880, at Signal Service stations are shown on chart No. II, by arrows which fly with the wind. *Northwesterly* winds have prevailed in New England, Tennessee, the Middle and Gulf States and from the Mississippi valley westward to the Rocky Mountains. In the Lake region and the Ohio valley the winds were *southwesterly*. In other districts they were *variable*.

Total Movements.—The following were the *largest* in the *various* districts: Mt. Washington, 20.469 miles; Pike's Peak, 19.940; Cape May, 15.577; New Shoreham, 14.727; Sandy Hook, 13.665; Delaware Breakwater, 13.468; Thatcher's Island, 13.031; Cape Lookout, 12.637; Indianola, 11.361; Eastport, 10.393; Sandusky, 9.983; Milwaukee, 9.603. The *smallest* were: Phoenix, Ariz., 1.269 miles; La Mesilla, N. M., 1.532; Roseburg, Oregon, 2.127; Helena, Mont., 2.248; Visalia, Cal., 22.69; Augusta, Ga., 2.667; Lynchburg, 2.758; Castroville, Tex., 2.783; Deadwood, 3.072; Du-buque, 3.312; Boise City, 3.318.

High Winds.—Winds of 50 miles and above were observed as follows: on Mt. Washington from 1st to 7th, 10th, 12th to 17th, 26th to 28th, 30th, 31st; the highest wind was NW. 99 miles on the 30th and from other points S. 80 on the 5th and E. 70 on 26th; on Pikes Peak, from 1st to 7th, 12th to 14th, 23rd to 27th, with a maximum of NW. 78 on the 6th; Fort Benton, W. 50 on the 12th; Portsmouth, SE. 50 on the 20th; Kittyhawk, NE. 50 on the 9th; Indianola, N. 51 28th and 29th; Cape May, NW. 52 on the 30th; Milwaukee, SW. 53 on the 5th; Yankton, NW. 56 on the 5th; Chincoteague, NE. 60 on the 20th; Cape Henry, NE. and NW. 60 on the 20th and 28th respectively; Barnegat, NE. 62 on the 26th; New Shoreham, NE. 64 on the 26th; Thatcher's Island, E. 84 on the 26th.

Local Storms.—The following tornadoes on the 4th were reported by the Missouri Weather Service and the voluntary observers of the Signal Service in that section: Between the hours of 7 and 8 p. m., three comparatively violent tornadoes, pursuing nearly parallel paths to the northeastward, occurred in southwestern Missouri in connection with the passage of low-pressure area No. III. The track of the one farthest north passed near the towns of Sarcxie, Lawrenceburg and Ash Grove, destroying five buildings and causing much damage to other property. The second storm passing near Pierce City, visited the towns of Verona, Brookline, Springfield and Marshfield. Eleven buildings were either unroofed or torn to pieces and several animals killed, besides which, much other damage was done to fences, haystacks and farm machinery. Width of storm-path about 300 yards. The third storm passed through portions of Barry, Stone, Christain and Webster counties, visiting the town of Ozark. Several buildings were wrecked and considerable damage done.